



EXPRESS MAIL NO. EV889152854US

Sheet 1 of 8

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)ATTY. DOCKET NO.
890050.436APPLICATION NO.
10/637,407APPLICANTS
Masaki Aoshima et al.FILING DATE
August 7, 2003GROUP ART UNIT
1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W	AA	4,405,706	09/20/83	Takahashi et al.	430	271	
W	AB	4,500,889	02/19/85	Wada et al.	346	1.1	
W	AC	4,529,991	07/16/85	Wada et al.	346	76 L	
W	AD	4,609,611	09/02/86	Sigyo et al.	430	270	
W	AE	4,682,321	07/21/87	Takaoka et al.	369	284	
	AF	5,328,813	07/12/94	Strandjord et al.	430	321	
W	AG	5,459,018	10/17/95	Akahira	430	270	
W	AH	5,560,998	10/01/96	Oyamatsu et al.	428	694 ML	
W	AI	5,745,467	04/28/98	Sakaue et al.	369	116	
	AJ	5,818,808	10/06/98	Takada et al.	369	116	

FOREIGN PATENT DOCUMENTS

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W	AA	5,871,881	02/16/99	Nishida et al.	430	270.11	
	AB	5,949,747	09/07/99	Miyashita et al.	369	54	
	AC	5,958,649	09/28/99	Hirotsune et al.	430	270.13	
	AD	6,187,406	02/13/01	Ichihara et al.	428	64.1	
W	AE	6,245,404	06/12/01	Saito et al.	428	64.1	
	AF	6,278,680	08/21/01	Miyauchi et al.	369	112.01	
W	AG	6,333,913	12/25/01	Yoshinari et al.	369	283	
W	AH	6,345,026	02/05/02	Furukawa et al.	369	59.11	
	AI	6,404,712	06/11/02	Lee et al.	369	47.53	
	AJ	6,404,713	06/11/02	Ueki	369	47.53	
	AK	6,416,837	07/09/02	Kojima et al.	428	64.1	
W	AL	6,528,138	03/04/03	Meinders et al.	428	64.1	
	AM	6,611,481	08/26/03	Koishi et al.	369	47.53	
	AN	6,660,451	12/09/03	Sakaue et al.	430	270.13	
	AO	6,670,014	12/30/03	Nishihara et al.	428	64.1	
W	AP	6,699,591	03/02/04	Ishida et al.	428	641	

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<i>W</i>	AA	6,741,547	05/25/04	Tomura et al.	369	275.4	
<i>W</i>	AB	6,751,184	06/15/04	Kojima et al.	369	275.2	
<i>W</i>	AC	6,757,232	06/29/04	Yamada et al.	369	59.12	
<i>W</i>	AD	6,791,926	09/14/04	Furumiya et al.	369	53.13	
<i>W</i>	AE	6,809,859	10/26/04	Erdogan et al.	359	359	
<i>W</i>	AF	6,821,707	11/23/04	Uno et al.	430	270.13	
	AG	6,929,840	08/16/05	Hosoda et al.	428	64.1	
<i>W</i>	AH	6,986,152	01/10/06	Takemoto et al.	720	718	
<i>W</i>	AI	7,006,419	02/28/06	Yokoi	369	59.11	
	AI	7,018,694	03/28/06	Hosoda et al.	428	64.1	
<i>W</i>	AK	7,130,256	10/31/06	Toda et al.	369	59.11	
<i>W</i>	AL	7,142,496	11/28/06	Miyagawa et al.	369	59.11	
<i>W</i>	AM	7,143,426	11/28/06	Mishima et al.	720	718	
<i>W</i>	AN	7,169,533	01/30/07	Sakaue et al.	430	270.13	
<i>W</i>	AO	7,190,650	03/13/07	Fujiune et al.	369	53.22	
<i>W</i>	AP	2001/0005343	06/28/01	Shoji et al.	369	47.51	

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<i>W</i>	AA	2002/0160306	10/31/02	Hanaoka et al.	430	270.13	
<i>W</i>	AB	2003/0134229	07/17/03	Yasuda et al.	430	270.13	
	AC	2004/0013069	01/22/04	Uno et al.	369	59.11	
<i>W</i>	AD	2004/0052176	03/18/04	Narumi et al.	369	47.39	
	AE	2004/0174796	09/09/04	Mizushima et al.	369	94	
<i>W</i>	AF	2005/0047306	03/03/05	Inoue et al.	369	94	
	AG	2005/0243676	11/03/05	Kato et al.	369	59.11	
	AH	2006/0013111	01/19/06	Inoue et al.	369	125	
<i>W</i>	AI	2002/0110063	08/15/02	Yamada et al.	369	47.39	
<i>W</i>	AJ	7,154,844	12/26/06	Usami	369	286	
<i>W</i>	AK	7,167,431	01/23/07	Miura et al.	369	59.11	
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					YES	NO
<i>W</i>	AB	54-133134	10/16/79	JP (+ Abstract in English)		
<i>W</i>	AC	60-219097	11/01/85	JP (+ Abstract in English)		
<i>W</i>	AD	62-226440	10/05/87	JP (+ Abstract in English)		
	AE	1-270528	10/27/89	JP (+ Abstract in English)		
	AF	3-5929	01/11/91	JP (+ Abstract in English)		
	AG	4-298389	10/22/92	JP (+ Abstract in English)		
	AH	5-342635	12/24/93	JP (+ Abstract in English)		
	AI	5-342631	12/24/93	JP (+ Abstract in English)		
	AJ	5-159358	06/25/93	JP (+ Abstract in English)		
	AK	6-262854	09/20/94	JP (+ Abstract in English)		
	AL	9-7176	01/10/97	JP (+ Abstract in English)		
<i>W</i>	AM	10-134919	05/22/98	JP (+ Abstract in English)		
<i>W</i>	AN	10-143919	05/29/98	JP (+ Abstract in English)		
	AO	2000-297365	10/24/00	JP (+ Abstract in English)		
<i>W</i>	AP	2 336 463	10/20/99	GB		
<i>W</i>	AQ	1 122 723	08/08/01	EP		

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<i>W</i>	11/2/07

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AB	2000-222764	08/11/00	JP (+ Abstract in English)		
	AC	2000-285509	10/13/00	JP (+ Abstract in English)		
u	AD	2001-101709	04/13/01	JP (+ Abstract in English)		
	AE	2001-222819	08/17/01	JP (+ Abstract in English)		
u	AF	2001-266402	09/28/01	JP (+ Abstract in English)		
	AG	2001-322357	11/20/01	JP (+ Abstract in English)		
	AH	1 215 669	06/19/02	EP		
	AI	1365108	08/21/02	CN (+ Abstract in English)		
	AJ	2002-329348	11/15/02	JP (+ Abstract in English)		
u	AK	2003-105738	04/09/03	JP (+ Abstract in English)		
u	AL	2003-77185	03/14/03	JP (+ Abstract in English)		
	AM	2003-178448	06/27/03	JP (+ Abstract in English)		
	AN	2003-260874	09/16/03	JP (+ Abstract in English)		
	AO	2003-326848	11/19/03	JP (+ Abstract in English)		
	AP	2004-39177	02/05/04	JP (+ Abstract in English)		
	AQ	2004-158134	06/03/04	JP (+ Abstract in English)		

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AB	02/29787	04/11/02	WIPO (+ Abstract in English)		
W	AC	1 195 756	04/10/02	EP		
	AD	58-220794	12/22/83	JP (+ Abstract in English)		
W	AE	1 143 724	10/10/01	EP		
W	AF	3-258590	11/18/91	JP (+ Abstract in English)		
W	AG	2002-150563	05/24/02	JP (+ Abstract in English)		
W	AH	2002-15426	01/18/02	JP (+ Abstract in English)		
W	AI	2001-143265	05/25/01	JP (+ Abstract in English)		
	AJ	7-235465	09/05/95	JP (+ Abstract in English)		
	AK	9-7176	01/10/97	JP (+ Abstract in English)		
W	AL	2000-276736	10/06/00	JP (+ Abstract in English)		
W	AM	98/28735	07/02/98	WIPO (+Abstract in English)		
W	AN	7-129959	05/19/95	JP (+ Abstract in English)		
W	AO	7-225947	08/22/95	JP (+ Abstract in English)		
W	AP	4-838	01/06/92	JP (+ Abstract in English)		
W	AQ	3-258590	11/18/91	JP (+ Abstract in English)		

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					YES	NO	
W	AB	62-226442	10/05/87	JP (+ Abstract in English)			
W	AC	56-124134	09/29/81	JP (+ Abstract in English)			
W	AD	2002-237037	08/23/02	JP (+ Abstract in English)			
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